

FLUID MECHANICS AND MACHINERY LABORATORY



Laboratory : Fluid mechanics and machinery laboratory
Laboratory In-charge : Mr.L.Emmanuel
Technical supporting staff : Mr.K.Selvaraju
Area of the laboratory : 18.2 x 12.5 Sq.M

Major Equipments:

- Pelton wheel turbine
- Francis turbine
- Turgo impulse turbine
- Reciprocating pump
- Jet pump
- Submersible pump
- Centrifugal pump
- Gear pump
- Pump in series and parallel
- Kaplan turbine
- Pipe in friction apparatus
- Orifice meter apparatus

- Rotometer apparatus
- Water meter apparatus
- Venturi meter apparatus
- Minor losses apparatus
- Notches and weirs apparatus
- Orifice and mouth piece apparatus
- Bernoulli's apparatus
- Buoyancy apparatus

Major Experiments:

- Determination of the Coefficient of discharge of given Orifice meter.
- Determination of the Coefficient of discharge of given Venturi meter.
- Calculation of the rate of flow using Rota meter / Flow meter.
- Determination of friction factor for a given set of pipes – Major losses and minor losses
- Conducting experiments and drawing the characteristic curves of centrifugal pump
- Conducting experiments and drawing the characteristic curves of submergible pump
- Conducting experiments and drawing the characteristic curves of pumps in series and parallel operations
- Conducting experiments and drawing the characteristic curves of reciprocating pump.
- Conduction experiments and drawing the characteristic curves of Jet pump.
- Conducting experiments and drawing the characteristic curves of Gear pump.
- Conducting experiments and drawing the characteristic curves of Pelton wheel.
- Conducting experiments and drawing the characteristic curves of Francis turbine.
- Conducting experiments and drawing the characteristic curves of Kaplan turbine.